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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/677,493	10/02/2000	Guang Yang		3562

7590 02/13/2003

George Guang Yang  
2235 California Street  
#187  
Mountain View, CA 94040

EXAMINER

TO, BAOQUOC N

ART UNIT	PAPER NUMBER
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2172

DATE MAILED: 02/13/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/677,493

Applicant(s)

YANG, GUANG

Examiner

Baoquoc N To

Art Unit

2172

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All   b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                  | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). ____.  |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)         | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____. | 6) <input type="checkbox"/> Other: _____                                    |

**DETAILED ACTION**

1. Claims 1-6 are amended and newly added claim 7 based on the amendment filed on Feb 6, 2003.
2. Claims 1-7 are pending in this application.

***Response to Arguments***

3. Applicant's arguments with respect to claims 1-6 have been considered but are moot in view of the new ground(s) of rejection.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Koppolu et al. (US. Patent No. 5,801,701) in view of Teper et al. (US. Patent No. 5,815,665).

Regarding on claim 1, teaches an integrated relational database data editing system providing the visual environment, graphic user interfaces and tools in the client computer to remotely access a server computer that contains a relational database and to manage and edit the database data contents through either the intranet or the Internet, and said system includes the following mechanism and characters:

(i) said client computer retrieves the database data (VAC1.DOC) from the remote server computer database, modify, update, input, output the data and then sends the data back to the original database (retrieve in order to edit the document) (col. 7, lines 38-63); and

(ii) said client computer directly edit and modify (edit container objects) the data base data without writing detail computer language codes in an efficient and easy-to-use manner (col. 7, lines 53-63); and

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(iii) said client computer directly edit and modify the large text data type and large binary data type by using a plurality of commercial text and multimedia data editors installed on the client computer (col. 8, lines 15-24); and

Koppolu does not explicitly teach said database data editing system implements the user authentication and access control mechanism. However, Teper teaches, "the customization information may be provided to the Service Providers either automatically upon the user authentication (along with the user's access right information" (col. 9, lines 9-12). This teaches the user authentication and the user access right to access the database information. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify the teaching of Koppolu into Teper because utilizing the user authentication and user's access right control mechanism would allow only authorized user to access and modify the data in the database.

Regarding on claim 2, Koppolu teaches the a well-defined graphical user interfaces and tools that displays a database or a subset data of a table and has the following novel character:

(i) said database data on each table cell is defaulted as read only (table1 and table 2) (fig. 3); and

(ii) said database small text data on each table cell is directly edited when single-click by the mouse (right click to change name of the data) (col. 28, lines 55-58); and

(iii) said table cell contains a small icon as a place holder for the large text data type or large binary data type (3206) (fig. 32); and

(iv) said commercial data editor is popped up from the local client computer when double-click the small icon of the table cell by the mouse and the database data is down loaded into the data editor from the remote database and is sent back to the original database when data editing is completed (col. 8, lines 14-24); and

(v) said data editor is either a text editor or multimedia editor depending on the data type inside the table cell (data container with spreadsheet application) (col. 8, lines 15-24).

Regarding on claim 3, Koppolu teaches database manager in said client computer comprising: a Header Panel (3204) (fig. 32) and a Detail Panel (3205) (fig. 32), which provides a user friendly environment and tools to manage and edit the database data contents (window tools) (3203) (fig. 32).

Regarding on claim 4, Koppolu teaches a list of databases (VAC1, VAC2, VAC3) (3204) (fig. 32) and database tables for each database (3205) (fig. 32), and

(i) a Details Panel is popped up when double-clicked the database name (col. 8, lines 15-20); and

(ii) a database is popped up when double-clicked the table name (col. 8, lines 15-20).

Regarding on claim 6, Koppolu teaches integrated database data editing system is deployed and run on the intranet (server) (col. 8, lines 47-64).

Regarding on claim 7, Koppolu teaches deployed and run on the Internet and also intranet (server) (implies both internet and intranet) (col. 8, lines 47-64); however, Koppolu does not explicitly teach further has more advantages to implement the security features by using the Public Key Infrastructure (PKI) and Secure Socket Layer (SSL). On the other hand, Teper teaches, "the client application 42 passes the challenge message to the MSN SSP package 44A via the InitializeSecurityContext API. In response to his API call, the MSN SSP package 44A generates and return the response message, and computes a session key which may be used for the subsequent encryption of data between the client and server application 42, 52, and that other applications will instead use standard encryption protocols such as the Secure Sockets Layer protocol or the Private communications Technology protocol.) (col. 17, lines 23-33). This teaches the database data are sent between the client and server using Secure Socket Layer and key encryption to send the database data between client and server. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify the teaching of Teper into Koppolus because utilizing both key encryption and secure socket layer to protect the database data transferring from the server to client or over the unsecured internet according to the user request to edit the database data.



5. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Koppolu et al. (US. Patent No. 5,801,701) in view of Teper et al. (US. Patent No. 5,815,665) and further in view of Moursund (US. Patent No. 5,644,739).

Regarding on claim 5, Koppolu teaches a DB designer for creating and modifying the database (editing the spreadsheet document by the spreadsheet application) (col. 7, lines 53-64)

Koppolu does not explicitly teach (ii) an ER Designer for editing and displaying the database data structure and macros; and (iii) a Table Designer for designing the database tables; and (iv) a DB Schema for designing and displaying the database data structure and macros; and (v) a Data filter for selecting a set of data from one or more database files; and (vi) a SQL console for writing and executing the SQL codes.

However, Moursund teaches, "the tool bar 112 for editing the and displaying the data structure and the Macros, by clicking on the design the tool bar allow the tables to be edited, changed or deleted, selecting the tables to build the SQL statements and generating SQL statements to produce query results" (col. 5, lines 39-45 and fig. 4G).

This teaches the tool bar of Microsoft access application to allow the user to edit or change the database structure and displaying it on the window. Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention was made to modify the teaching of Moursund into Koppolu because utilizing the tool bar of Microsoft access to edit or modify the database structure would allow the user to see the entire process and user ease of use.

**Conclusion**

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Baoquoc N. To whose telephone number is (703) 305-1949 or via e-mail BaoquocN.To@uspto.gov. The examiner can normally be reached on Monday-Friday: 8:00 AM – 4:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached at (703) 305-4393.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks  
Washington, D.C. 20231.

The fax numbers for the organization where this application or proceeding is assigned are as follow:

- (703) 746-7238 [After Final Communication]
- (703) 746-7239 [Official Communication]
- (703) 746-7240 [Non-Official Communication]

Hand-delivered responses should be brought to:

Crystal Park II  
2121 Crystal Drive  
Arlington, VA 22202  
Fourth Floor (Receptionist).

Baoquoc N. To  
Feb 6, 2002

  
SHAHID AL ALAM  
PATENT EXAMINER

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